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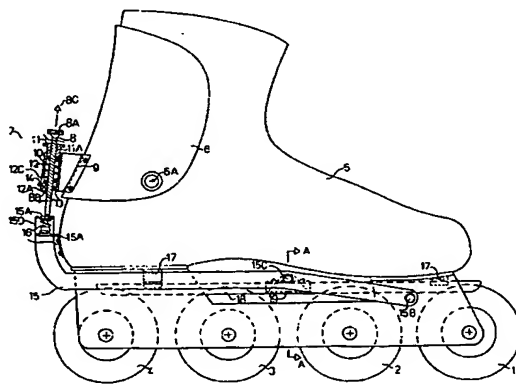
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(54) Title: FOUR WHEEL MECHANICAL BRAKE SYSTEM FOR INLINE SKATES



(57) **Abstract:** A mechanical brake system for inline skates that utilizes all four wheels for braking. The brake is applied by the skater straightening the leg, or both legs if there are brakes on both skates, to a predetermined adjustable position. This causes the adjustable and spring loaded trigger rod, mounted on the pivoting ankle support behind the heel to push the brake lever that extends from behind the heel on both sides of the frame to the front where it is hingedly attached to move downwards. At the mid-point of the skate the brake rail positioned above the wheels and extending the whole length of the skate is connected to the brake lever. The downward movement of the brake lever and brake rail causes the brake rail to contact the wheels causing friction and thereby braking in direct proportion to the force by which the skater is straightening the leg(s). The brake rail is inflexible and shaped to fit the curvature of the wheels thereby facilitating even wheel wear both regarding shape and diameter. Two brackets mounted on the underside of the skate and passing through slots in the brake rail ensure centering of the brake rail. The spring loading of the trigger rod ensures smooth and controllable braking. The spring tension of the spring loaded trigger rod is adjustable so that skaters with different body weight can have optimum braking power without wheel lock-up.

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